

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. – 58. (Cancelled)

59. (Previously Presented) A cordless power tool comprising:

a cordless power tool with a removable battery pack having a housing including a mechanism for coupling with the removable battery pack;

said removable battery pack comprising a housing with one or more cells in said housing, an inlet in said battery pack housing for enabling fluid to enter into said housing when said cordless power tools is in use, an outlet in said battery pack housing enabling fluid to exit said housing; and

a mechanism associated with said battery pack for dissipating heat from said battery pack and maintaining a desired temperature for optimizing performance during use of the cordless power tool.

60. (Previously Presented) The cordless tool according to Claim 59, wherein said mechanism includes at least one channel for moving fluid to said one or more cells and through said housing.

61. (Previously Presented) The cordless tool according to Claim 59, wherein said mechanism includes a heat sink for dissipating heat from said one or more cells.

62. (Previously Presented) The cordless tool according to Claim 59, wherein said mechanism includes a fan for forcing fluid through said vent system to dissipate heat from the battery pack housing.

63. (Previously Presented) The cordless tool according to Claim 59, wherein said mechanism includes at least one fluid director for moving fluid to said one or more cells.

64. (Previously Presented) The cordless tool according to Claim 59, further including a heat pump for providing cooling and heating of said one or more cells in said battery pack housing.

65. (Previously Presented) The cordless tool according to Claim 59, wherein said mechanism includes a sensor for sensing temperature of said one or more cells and a heat dissipator for equalizing the temperature of said plurality of cells.

66. (Previously Presented) The cordless tool according to Claim 65, said heat dissipator wicks heat from hotter cells to ambient or to other cells to equalize cell temperature.

67. (Previously Presented) The cordless tool according to Claim 59, wherein said mechanism includes fluid directors for moving fluid around higher temperature cells of said one or more cells and a heat sink for dissipating heat from higher temperature cells of said one or more cells.

68. (Previously Presented) The cordless tool according to Claim 59, wherein said mechanism includes fluid directors for moving fluid around higher temperature cells of said plurality of cells and a fan for forcing fluid through said vent system to dissipate heat from the battery pack housing.

69. (Previously Presented) The cordless tool according to Claim 59, wherein said mechanism includes a heat sink for dissipating heat from higher temperature cells of said one or more cells and a fan for forcing fluid through said vent system to dissipate heat from the battery pack housing.

70. (Previously Presented) A removable battery pack for a hand held cordless tool having a mechanism for coupling and decoupling the removable battery pack comprising:

a housing with one or more cells in said housing, an inlet and outlet in said housing for enabling fluid to enter and exit said housing and an element on said housing for coupling and decoupling said battery pack with the coupling and decoupling mechanism of the hand held tool; and

a mechanism associated with said battery pack for dissipating heat in said battery pack housing and maintaining a desired temperature for optimizing performance during use of the cordless power tool.

71. (Previously Presented) The removable battery pack according to Claim 70, wherein said mechanism includes at least one fluid director for moving fluid to said one or more cells.

72. (Previously Presented) The removable battery pack according to Claim 70, wherein said mechanism includes at least one channel for moving fluid through said housing.

73. (Previously Presented) The removable battery pack according to Claim 70, wherein said mechanism includes a heat sink for dissipating heat from said one or more cells.

74. (Previously Presented) The removable battery pack according to Claim 70, further including a heat pump for providing cooling and heating of said one or more cells in said battery pack housing.

75. (Previously Presented) The removable battery pack according to Claim 70, wherein said mechanism includes a sensor for sensing temperature of said one or more cells and a heat dissipator for equalizing the temperature of said plurality of cells.

76. (Previously Presented) A removable battery pack for a hand held cordless tool having a mechanism for coupling and decoupling with the removable battery pack comprising:

a housing with one or more cells in said housing, an inlet and an outlet in said housing for enabling fluid to enter and exit said housing and a member on said housing for mating said battery pack with the coupling and decoupling mechanism of the hand held tool; and

a mechanism associated with said battery pack for dissipating heat in said battery pack housing and maintaining a desired temperature for optimizing performance during use of the cordless power tool.

77. (Previously Presented) A removable battery pack for a hand held cordless tool having a mechanism for coupling and decoupling with the removable battery comprising:

a housing with one or more cells in said housing, an inlet and an outlet in said housing for enabling fluid to enter and exit said housing and said housing mating with the coupling and decoupling mechanism of the hand held tool; and

a mechanism associated with said battery pack for dissipating heat in said battery pack housing and maintaining a desired temperature for optimizing performance during use of the cordless power tool.

78. (Previously Presented) A cordless power tool comprising:

a cordless power tool with a removable battery pack having a housing including a mechanism for coupling with said removable battery pack;

said removable battery pack comprising a housing with one or more cells in said housing, a mechanism for sinking heat associated with said one or more cells in said housing; and

said mechanism for sinking heat dissipating heat from said cells in said battery pack and maintaining a desired temperature for optimizing performance during use of the cordless power tool.

79. (Previously Presented) The cordless tool according to Claim 78, wherein said mechanism includes a heat sink in contact with said one or more cells for dissipating heat from said one or more cells.

80. (Previously Presented) The cordless tool according to Claim 78, said heat sink wicks heat from hotter cells to ambient.

81. (Previously Presented) A removable battery pack for a hand held cordless tool comprising:

a mechanism for coupling and decoupling the removable battery pack with the handheld cordless tool;

a housing with one or more cells in said housing, a mechanism for sinking heat associated with said one or more cells in said housing; and

said mechanism for sinking heat dissipating heat in said battery pack housing and maintaining a desired temperature for optimizing performance during use of the cordless power tool.

82. (Previously Presented) The removable battery pack according to Claim 81, wherein said mechanism includes a heat sink in contact with said one or more cells for dissipating heat from said one or more cells.

83. (Previously Presented) A removable battery pack for a hand held cordless tool comprising:

a mechanism for coupling and decoupling the removable battery pack with the hand held cordless tool;

a housing with one or more cells in said housing, a mechanism for sinking heat associated with said one or more cells in said housing; and

said mechanism for sinking heat for dissipating heat in said battery pack housing and maintaining a desired temperature for optimizing performance during use of the cordless power tool.

84. (Currently Amended) A removable battery pack for a hand held cordless tool comprising:

a mechanism for coupling and decoupling with the removable battery with the hand held cordless tool;

a housing with one or more cells in said housing, a mechanism for sinking heat associated with said one or more cells in said housing; and

said mechanism for sinking heat for dissipating heat in said battery pack housing and maintaining a desired temperature for optimizing performance during use of the cordless power tool.